

Element Materials Technology - Fort Wayne 328 Ley Rd. Fort Wayne, IN 46825 TEL: (260) 424-1622 FAX: (260) 424-9124 Website: www.element.com

March 27, 2020

Nickie Geros East Chicago Sanitary District 5201 Indianapolis Blvd East Chicago, IN 46312

TEL: 219-391-8466

FAX:

RE: S-901

Dear Nickie Geros: Order No.: 20032132

Element Materials Technology - Fort Wayne received 2 sample(s) on 3/20/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Samantha K. Packard

Project Manager

328 Ley Rd.

Fort Wayne, IN 46825

Original Page 1 of 5



 ${\it Element\ Materials\ Technology\ -\ Fort\ Wayne}$

328 Ley Rd.

Fort Wayne, IN 46825

TEL: (260) 424-1622 FAX: (260) 424-9124 Website: www.element.com **Analytical Report**

(wastewater)

WO#: **20032132**

Date Reported 3/27/2020

Collection Date: 3/19/2020 9:38:00 AM

Matrix: WASTEWATER

CLIENT: East Chicago Sanitary District

Project: S-901

Lab ID: 20032132-001

Client Sample ID #901

Sample Location:

Analyses	Result	RL Qu	al Units	DF PL	Date Analyzed
CYANIDE, AVAILABLE BY LIG	AND EXHANGE		OIA	-1677-09	Analyst: AN
Cyanide, Available	0.12	0.0020	mg/L	1	3/24/2020 10:40:00 AM
OIL AND GREASE, TOTAL			E	1664	Analyst: HF
Oil & Grease, Total	6.8	5.0	mg/L	1 50.0	3/23/2020 12:49:45 PM
SV COMPOUNDS FOR CATEGO	ORICAL RQTS		1	E625	Analyst: SF
Bis(2-ethylhexyl)phthalate	< 0.10	0.10	mg/L	10 0.16	3/25/2020 3:32:00 PM

Qualifiers:

Value exceeds Maximum Contaminant Level

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded

M Manual Integration used to determine area response

PL Permit Limit

RL Reporting Detection Limit



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(wastewater)

WO#: **20032132**

Date Reported 3/27/2020

Collection Date: 3/19/2020 9:38:00 AM

Matrix: WASTEWATER

CLIENT: East Chicago Sanitary District

Project: S-901

Lab ID: 20032132-002

Client Sample ID #901

Sample Location:

Result	RL Q	ual Units	DF	PL	Date Analyzed
			E300.0		Analyst: HN
4.2	0.5	* mg/L	5	2.9	3/24/2020 5:32:18 PM
			M5220 D		Analyst: MAF
549	10.0	mg/L	1		3/24/2020 3:25:00 PM
			E350.1		Analyst: AC
42.4	1.00	mg/L	10	77.0	3/23/2020 1:41:28 PM
			E420.1		Analyst: ANS
0.069	0.050	mg/L	2	0.700	3/25/2020 3:44:20 PM
			M4500-P F		Analyst: HN
0.367	0.100	mg/L	1	5.50	3/23/2020 2:36:32 PM
			M2540 D		Analyst: MAF
107	20	mg/L	1		3/23/2020 4:30:00 PM
			E245.1		Analyst: FJR
0.00011	0.00010	mg/L	1		3/24/2020 10:54:55 AM
TALS			E200.8		Analyst: FJR
0.0141 0.00370 0.00394 0.00045	0.00020 0.00040 0.00020 0.00020	mg/L mg/L mg/L mg/L	1 1 1	0.500 0.282 0.301 0.224	3/24/2020 1:32:39 PM 3/24/2020 1:32:39 PM 3/24/2020 1:32:39 PM 3/24/2020 1:32:39 PM
	4.2 549 42.4 0.069 0.367 107 0.00011 TALS 0.0141 0.00370 0.00394	4.2 0.5 549 10.0 42.4 1.00 0.069 0.050 0.367 0.100 107 20 0.00011 0.00010 TALS 0.0141 0.00020 0.00370 0.00040 0.00394 0.00020	4.2 0.5 * mg/L 549 10.0 mg/L 42.4 1.00 mg/L 0.069 0.050 mg/L 0.367 0.100 mg/L 107 20 mg/L 0.00011 0.00010 mg/L TALS 0.0141 0.00020 mg/L 0.00370 0.00040 mg/L 0.00394 0.00020 mg/L	E300.0 4.2 0.5 * mg/L M5220 D 549 10.0 mg/L 1 E350.1 42.4 1.00 mg/L 10 E420.1 0.069 0.050 mg/L 2 M4500-P F 0.367 0.100 mg/L 1 M2540 D 107 20 mg/L 1 E245.1 0.00011 0.00010 mg/L 1 E245.1 7ALS E200.8	E300.0

Qualifiers: * Value exceeds Maximum Contaminant Level

Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

S Spike Recovery outside accepted recovery limits

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M Manual Integration used to determine area response

PL Permit Limit

RL Reporting Detection Limit



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(wastewater)

WO#: **20032132**

Date Reported 3/27/2020

Collection Date: 3/19/2020 9:38:00 AM

CLIENT: East Chicago Sanitary District

Project: S-901

Lab ID: 20032132-002 Matrix: WASTEWATER

Client Sample ID #901

Sample Location:

Analyses	Result	RL Qua	al Units	DF	PL	Date Analyzed
METALS IN WATER BY ICP-MS,	TOTALS		E	200.8		Analyst: FJR
Molybdenum	0.0223	0.00020	mg/L	1	0.200	3/24/2020 1:32:39 PM
Nickel	0.0129	0.00100	mg/L	1	0.390	3/24/2020 1:32:39 PM
Zinc	0.112	0.00400	mg/L	10	1.48	3/26/2020 11:07:42 AM

Value exceeds Maximum Contaminant Lev
 J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

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M Manual Integration used to determine area response

PL Permit Limit

RL Reporting Detection Limit



element 023 M43 WIS Chain of Custody

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	+		+	-				×	NAOH	٦	_	W	Grab	9:38	3-19-20		S-901 Grab
Mo, Ni, Zn, & Hg,	TS	300:	PH	*Me	377	Bis(HCI	Typ P=I G=	Qu	Matrix	Grab / Composite	Time	Date	cription	Sample ID/Description
*As Cr Cii Ph						2Eł			, H	oe Pla Gla	an		mation	Collection Information	Collect		
Samples Meet Acceptance Policy Yes No				PHOS, COI		H) Phthalate	rease Total	IIDE 1677	NO _{3,} H ₂ SC H, Na ₂ S ₂ O ₃	stic, iss, V=Vial	tity	by	must be pre- approved by lab.)			☐Special ☐State ☐Other	□NPDES □USDA/FDA □RECAP/RISC
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PW = Produced Water CF = Completion Fluid	/ Mail	and /	H / E	DHL / Element / Hand / Mail	된 /				No No						com	ngeros@eastchicago.com	E-mail Address:
NG = Natural Gas NGL = Natural Gas Liquid	rne	Airbo	Ēx /	UPS / FedEx / Airborne	UPS				□Yes								Fax Number:
O = Oil SO = Soil F = Food SW = Swab			: :	Shipping Method:	iipping	Sh		thly	Bill Monthly		Ext:		×	Ext. 240		219-391-8466	Number:
OI = Other SL = Sludge SOL = Solid				<u>) م</u>	1	7									N 46312	East Chicago IN 46312	City, State Zip:
AQ = Aqueous				7	•	L	evel	JOCL	Required QC Level								
WW = Waste Water GW = Ground Water			ture	Sampler's Signature	mpler's	Sa									olis Blvd	5201 Indianapolis	Address:
DW = Drinking Water Pa								umber	Quote Number:							Nickie Geros	Contact Name:
x Code			S-901	ဟု									Same		nitary Distr	East Chicago Sanitary District	Company Name:
Page of of			umber	Project Name/Number:	oject N	P		ıber:	PO Number:			mation:	Billing Information:	-		Client Information:)
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All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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Temp: 4,40

Received at lab on ice?

End Date/Time: 3-20-20 8:08

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8800 North US 31 Columbus, IN 47201 USA P 812-375-0531 F 812-375-0731

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909 Executive Dr. Warsaw, IN 46580 USA P 574-267-3305 F 574-269-6569

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